Honokahau04rpt-ddh.doc

Project Name: Honokahau SBH 1.

2. Date of Inspection: 13 May 2004

#### 3. Inspection Personnel:

Name		Agency/Office	Telephone No.	
a.	Dan Meyers	COE	438-8875	
b.	Jessica Hays	COE	438-1680	

## Discussion:

The project consist of:

Entrance Channel - 840' long, 120' wide and 20' deep at the outer-end and 15' deep and 15" wide at the inner-end.

Main Access Channel - 660' long and 15' deep at the outer-end and 12' deep at the inner-end.

Wave Absorber (South) - 150' long adjacent the south-side of the entrance channel. The project begins at Sta. 4+50 (Oceanside) to Sta. 6+00 as shown on the attached Project Index Map.

Wave Absorber (North) - 650' long adjacent the north-side of the entrance channel. The project begins at Sta. 5+00 (Oceanside) thru Sta. 8+50 then transitions east at Sta. 8+51 to Sta. 11+60 as shown on the attached Project Index Map.

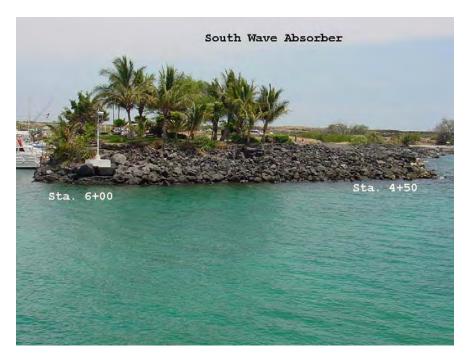
I met with the Harbor Agent II, Mr. Dan Mersburg, Division of Boating and Ocean Recreation, Department of Land and Natural Resources, 329-4215, fax 326-7896. Nancey Murphy is District Manager. Mersburgh stated there were no known problems with the project and no boaters had complained about channel depths.

## Findings:

The following are deficiencies noted during the inspection:



# South Wave Absorber - 150':



a. South Wave Absorber, Overview



b. Sta. 5+75; Sta. 5+20 and Sta. 4+90, armor stones have been pushed up by wave action, these irregularities in the armor stone

layer causes a  $2^{\prime}$  mound and associated  $2^{\prime}$  depression in the



c. Sta. 4+75, armor stones are dislodged at the toe and have caused a void at the waterline.

## North Wave Absorber - 650':



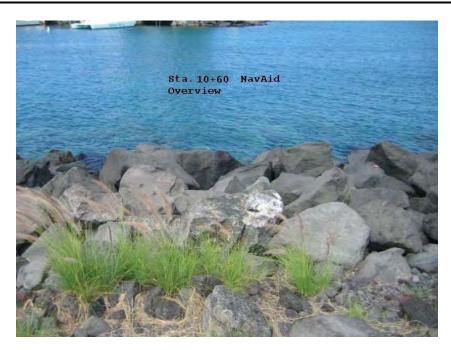


a. Sta. 11+60 thru Sta. 8+51, numerous toe armor stones are displaced at the waterline, some voids.



b. Sta. 9+95, dislodged armor stone at the toe. (Sight movement from last inspection).





c. Sta. 10+60, Overview from NavAid.



d. Sta. 8+51, Overview (east-side).





d. Sta. 8+50 - Sta. 5+00, (north-side), dislocated toe armor stones. (No change this inspection)

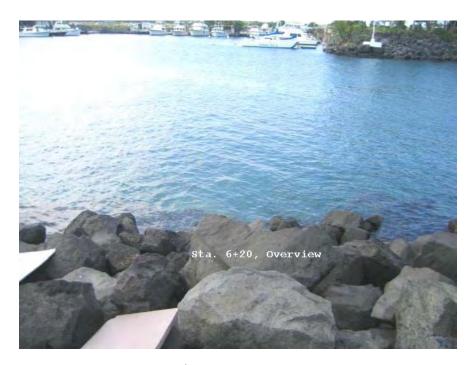


e. Sta. 8+51, Overview

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f. Sta. 6+50, displaced armor stone resting adjacent toe.



g. Sta. 6+20, Overview reference photo.





h. Sta. 5+00, Overview of armor stone placement at waterline, no change.



i. Sta. 5+00, Overview facing Sta. 8+51

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# 5. Conclusion:

Although both the North and South Wave Absorbers have sustained allot of armor stone movement, the risk of further major loss of function within the next budget cycle is unlikely. The wave absorber structures remains in GOOD condition.

Signed	1: _							
	Dan	Meyers	CEPOI	H-EC-	-T			
Signed:								
	Jim	Pennaz	P.E.,	Ch,	CEPOH-EC-T			

Attached: Project Index Map



CEPOH-EC-T UNTO UT ENVINEENS ROHALA CENTERLINE OF CHANNEL M -EL 10'± HILD HARBOR - EL 7.5' 2 LAYERS ARMOR STONE HONOKOHAU HARBOR TIE VIENTE EL . - 20'-60 LOCATION MAP LOCATION WAVE ABSORBER AND CHANNEL ENTRANCE CHANNEL LENGTH 840' WIDTH 120' DEPTH 15' TO 20' N WAVE ABSORBER MAIN ACCESS CHANNEL LENGTH 660' WIDTH 120' DEPTH 15' TO 12' 8+50 Sta. 89999 Sta. 8+51 CAR/TRAILER PARKING BAMP NO. 2 REPAIR RAMP NO 1-Sta. 11+6 . ZO FEET -12 FEET PHASE II HARBOR EXPANSION -8 FEET IS FEET HONOKOHAU -12 FEET Sta. 4+50 Sta. 6+00 WAVE ABSORBER LENGTH 150' HONOKOHAU SMALL BOAT HARBOR HAWAII, HAWAII REVISED 30 SEP 1987 DATE AUTH R & H ACT OF 1965 SCALE IN FEET U.S. ARMY ENGINEER DIVISION, PACIFIC OCEAN CORPS OF ENGINEERS